



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Rec'd PCT/PTO 04 FEB 2005

P30191AGRE/RPA				FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/GB 03/03431				International filing date (06.08.2003	(day/mont	hlyear)	Priority date (day/month/year) 07.08.2002	
International Patent Classification (IPC) or both national classification and IPC A61L2/10								
Applicant ALBAGAIA LIMITED et al.								
1.	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2.	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawlings which have							
	been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets.							
3.	This	repoi	t contains indications rel	lating to the following ite	ems:			
	I	\boxtimes	Basis of the opinion					
	11		Priority					
	III				ovelty, in	ventive step a	nd industrial applicability	
	V	IV ☐ Lack of unity of invention V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability;						
	•		citations and explanation	ons supporting such sta	itement	no novelly, inc	remove step or incustrial applicability;	
	VI		Certain documents cite	od				
	VII Certain defects in the international application							
	VIII	Z	Certain observations of	n the international appli	cation			
Date of submission of the demand					Date of completion of this report			
03.03.2004					10.11.2004			
Name and mailing address of the International preliminary examining authority:					Authoriz	ed Officer	Maal Petragon	
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465					Katsou Telephor	ilas, K ne No. +49 89 2:	399-8613	

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ı.	Basis	or the	report	

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages								
	1-26	5	as originally filed							
	Clas	inna Atromahaya								
	Cia	ims, Numbers								
	1-10)	as originally filed							
	Dra	wings, Sheets								
	1/4-	4/4	as originally filed							
2.	With lang	ith regard to the language , all the elements marked above were available or furnished to this Authority in t nguage in which the international application was filed, unless otherwise indicated under this item.								
	The	ese elements were available or furnished to this Authority in the following language: , which is:								
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).							
		the language of publ	lication of the international application (under Rule 48.3(b)).							
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).							
3.	With	n regard to any nucle rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:							
		contained in the inte	mational application in written form.							
		filed together with th	ed together with the international application in computer readable form.							
		furnished subsequently to this Authority in written form.								
		furnished subsequently to this Authority in computer readable form.								
		The statement that to in the international a	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.							
		The statement that the listing has been furn	the information recorded in computer readable form is identical to the written sequence iished.							
4.	The	amendments have r	resulted in the cancellation of:							
		the description,	pages:							
		the claims,	Nos.:							
		the drawings,	sheets:							

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5.

This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

4,8

No: Claims

1-3,5-7,9,10

Inventive step (IS)

Yes: Claims

No: Claims

1-3,5-7-10

Industrial applicability (IA)

Yes: Claims

1-10

No: Claims

2. Citations and explanations

see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

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D1: WO99/61075;

D2: Patent Abstracts of Japan vol. 1998, no. 01, 30.01.1998 & JP-A-09253637;

D3: Patent Abstracts of Japan vol. 18, no. 111 (C-1170) 23.02.1994 & JP-A-05305125

Ad Section V:

- 1. D1 discloses (cf. figures 2,6 and related description) an apparatus for the treatment of objects carrying bacteria comprising an operator accessible treatment vessel (100) comprising trays (610) to hold said contaminated objects and a light source (304,604) irradiating the objects for example at a wavelength of 290-380 nm (page 6, lines 24,25). A circuit (214,224,230) circulates and distributes a carrier medium through the apparatus. A microprocessor (400) controls and monitors the apparatus. It follows that apparatus claims 1-3 are not novel in view of D1 (Art. 33(2) PCT).
- D3 also discloses an apparatus for sterilizing contaminated objects or media, comprising an operator accessible vessel for holding said objects or media and an appropriate UV light source. It follows that at least claim 1 lacks novelty in view of D3 (Art. 33(2) PCT).
- 3. D2 discloses a process and an apparatus for purifying and sterilizing water comprising the step of irradiating said water in the presence of a titania catalyst with ultraviolet light. Process claim 6 differs from D2 only in specifying a particular wavelength range. However, given that at least part of the claimed range falls within the normal UV radiation range, it is considered that said range is implicitly also anticipated by D2. It follows that process claims 6, 7 and 10 are known from D2 (Art. 33(2) PCT).
- 4. Claim 9 simply further specifies normal temperature and pressure conditions. Given that the circulating passage (18) in D2 returns purified water to vessel (17) which is open to the atmosphere, it is considered that the claimed T and P ranges implicitly also fall within the operating conditions of D2. Thus, also claim 9 lacks novelty (Art. 33(2) PCT).
- 5. The particular titania form defined in claim 8 is not disclosed in the available JP abstract of D2. However, given that the claimed types are in fact the most frequently used titania types, it is considered that, if not implicitly disclosed, at

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least no inventive step can be acknowledged for claim 8 (Art. 33(3) PCT).

6. The particular feature combination of apparatus claim 4 cannot be derived from the available art. Thus, subject to the clarity objections below, claim 4 would meet the requirements of Art. 33(3) PCT.

Ad Section VIII:

- 1. According to the description (pages 10 and 12), the desired hydroxyl radical production from the catalyst active sites requires the <u>combined</u> use of a <u>photosensitive catalytic material and water</u>. Given that said feature combination is not defined in the independent claims, the scope of these claims is not clear due to the lack of essential features (Art. 6 PCT).
- 2. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the documents D1 D3 is not mentioned in the description, nor are these documents identified therein.